

**IMPORTANT NOTICE TO INSTALLER:** Make sure to read and understand all instructions and warnings before proceeding with the installation of this product. Ensure that the manual and any warning cards are delivered to the end user of this equipment. Proper installation of the lightbar requires the installer to have a thorough knowledge of automotive electronics, systems, and procedures. Lightbars provide an essential function of an effective visual warning system. The use of the lightbar does not ensure that all drivers can or will abide by or react to an emergency warning signal, especially at high rates of speeds or long distances. The operator of the vehicle must never take the right of way for granted and it is the operator's responsibility to proceed safely. The effectiveness of the lightbar is highly dependant on the correct mounting and wiring. The installer must read and follow the manufacturer's installation instructions and warnings in the manual. The vehicle operator should verify daily that the lightbar is securely fastened to the vehicle and properly functioning before operating vehicle. The lightbar is intended for use by authorized personnel only. It is the user's responsibility to ensure they understand and operate the emergency warning devices in compliance with the applicable local, state and federal laws and regulations. SoundOff Signal assumes no liability for any loss resulting from the use of this warning device.

#### **Components/Contents**

Standard Equipment:

1 - nROADS® Fleet LED Lightbar built to your specifications

Other Parts that may be included depending on your configuration:

- 1 Vehicle Specific Hook Kit w/ Hardware\*
- 2 Fixed Height Mounting Brackets w/ Hardware or
- 1 Flat Mount Hardware Kit or
- 2 Headache Brackets w/ Hardware

\*Kits will vary with each lightbar depending on vehicle specified on order form.

#### **Unpack Lightbar**

- 1. Remove the lightbar from box and packaging.
- 2. Save packaging for later shipping.
- 3. Check components/contents.
- 4. Please reference these instructions for proper wiring and installation.

#### **Tools Required for Installation**

- 7/16" Socket with ratchet
- Phillips Head Screwdriver
- Drill bit #30



#### 1.800.338.7337 / www.soundoffsignal.com

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices. Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/salessupport. If you have questions regarding this product, contact Technical Services, Monday - Friday, 8 a.m. to 5 p.m. or after hours 5 p.m. to 8 p.m. EST at 1.800.338.7337 (press #4 to skip the automated message). Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.

SUPERIOR CUSTOMER RELATIONSHIPS. SMARTLY DESIGNED LIGHTING & ELECTRONIC SOLUTIONS.

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### Important Information: -

- Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to your vehicle Owner's Manual for the location of any air bag deployment zones.
- DO NOT connect this device to a strobe power supply. This product is self-contained and does not require an external power supply.

A WARNING This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light

beam at close range.



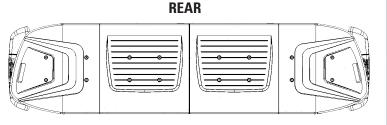
### **MODULE SPECIFICATIONS**

	· · · · · · · · · · · · · · · · · · ·
	6 LED Single Color Inboard ModuleINPUT VOLTAGE RANGE:10-16VdcCURRENT DRAW:0.2 Amps (Flashing) / 0.4 Amps(Steady On)POWER @ 12.8Vdc:2.6W (Flashing) / 5.2W (Steady On)
	9 LED Single Color Inboard Module     INPUT VOLTAGE RANGE:   10-16Vdc     CURRENT DRAW:   0.3 Amps (Flashing) / 0.6 Amps (Steady On)     POWER @ 12.8Vdc:   3.9W (Flashing) / 7.8W (Steady On)
	6 LED White Takedown Module     INPUT VOLTAGE RANGE:   10-16Vdc     CURRENT DRAW:   0.2 Amps (Flashing) / 0.4 Amps (Steady On)     POWER @ 12.8Vdc:   2.6W (Flashing) / 5.2W (Steady On)
	9 LED Single Color Corner Module   INPUT VOLTAGE RANGE: 10-16Vdc   CURRENT DRAW: 0.3 Amps (Flashing) / 0.6 Amps (Steady On)   POWER @ 12.8Vdc: 3.9W (Flashing) / 7.8W (Steady On)
Pologian.	<b>12 LED Single Color Corner Module</b> INPUT VOLTAGE RANGE:   10-16Vdc     CURRENT DRAW:   0.4 Amps (Flashing) / 0.8 Amps (Steady On)     POWER @ 12.8Vdc:   5.2W (Flashing) / 10.4W (Steady On)
Police	<b>18 LED Single Corner Module</b> INPUT VOLTAGE RANGE: 10-16Vdc   CURRENT DRAW: 0.6 Amps (Flashing)   POWER @ 12.8Vdc: 7.8W (Flashing)
	Corner Module with Integrated Alley Light Module INPUT VOLTAGE RANGE: 10-16Vdc CURRENT DRAW: 0.25 Amps (Flashing) / 0.5 Amps (Steady On) POWER @ 12.8Vdc: 3.2W (Flashing) / 6.4W (Steady On)

FLASHING = AVERAGE STEADY ON (100%) = PEAK

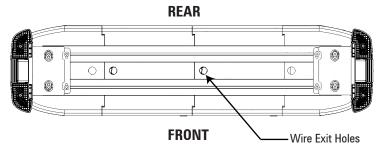


## **TOP VIEW WITH COVERS ON**



FRONT

## **BOTTOM VIEW**



TECHNICAL SPECIFICATIONS					
Material:	Aluminum Base, p outer lenses, ASA	•			
Roof Attachments:	1/4" bolt St	ainless A2			
Operating Temperature:	-40º to	+65° C			
LENGTH	# OF INBOARDS	DIMENSIONS			
36"	4				
42"	5				
48"	6	12"D x 2.5" H Inboard			
54"	7				

## **POWER SPECIFICATIONS**

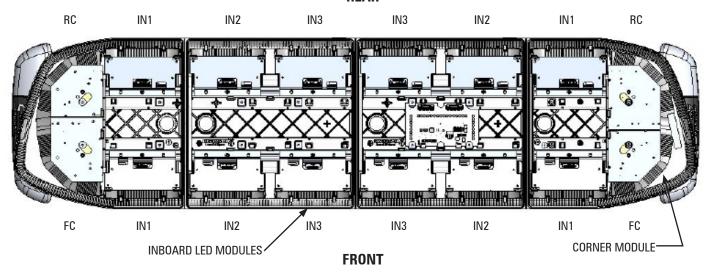
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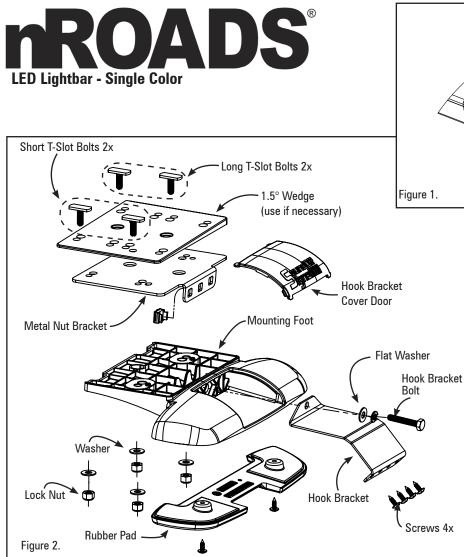
60"

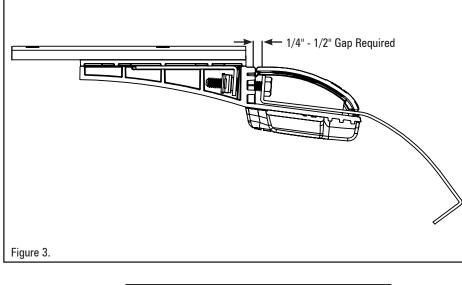
Input Voltage Range:	10 -16 Vdc		
Light Bar Component	Current Draw	Power Consumption (Watts)	
Standby Current	<0.10 mA	14 mW	
Reverse Polarity	Protected		
Load Dump Protected		ted	
Wiring	Power Cable 15ft, 16 AWG Wires, (+) Red, (-) Black Control Cable 15ft, 22 AWG, 8 or 12 Conductor STT Cable 15ft, 22AWG, 4 Conductor		

**TOP VIEW WITH COVERS OFF** 

REAR

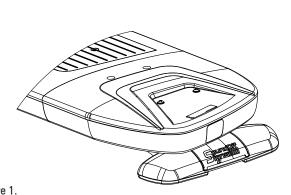






WARNING

Route wires only in locations that are not subjected to potential wear. Make sure to avoid routing wires in the deployment area of your air bag. Refer to your vehicle's owner's manual for airbag deployment zone.



## FIXED HEIGHT BRACKETS AND HOOK MOUNTING (NON-PURSUIT ONLY)

1. Keeping the lightbar level with the road, attach Mounting Feet to the roof of the vehicle using the 2 supplied T-Slot bolts. If the lightbar needs to be leveled, a  $1.5^\circ$  wedge has been provided.

2. Place lightbar centered on the roof, and hold brackets up to the lightbar. A 1/4" to 1/2" gap should be between the hook bracket and front wall of the mounting foot prior to putting any tension on the hook bracket bolt (See Figure 3). Adjust the mounting foot position to accomodate for this gap.

3. Tighten 2 lock nuts to secure mounting foot to lightbar with max torque between 80-90in/lbs. D0 NOT OVERTIGHTEN!

4. Using holes in the hook bracket as a template, drill 4 holes in the roof using the appropriate size drill. Secure hook bracket to roof with 4 screws on each side.

5. Tighten the hook bracket bolts, torque details below:

Due to different vehicle construction and mounting locations, the torque levels for connecting hooks to the lightbar foot may be different based on the vehicle.

- A. Minimum requirement for torque should be 10 IN/LB, with a maximum level of 45 IN/LB.\*
- B. When installing the bolts connecting the hook to the lightbar foot, monitor both the lightbar and roof of the vehicle.
- C. Tighten to ensure there is no movement of the lightbar or foot by ensuring there is no movement either side to side, or front to rear after the torque has been done.

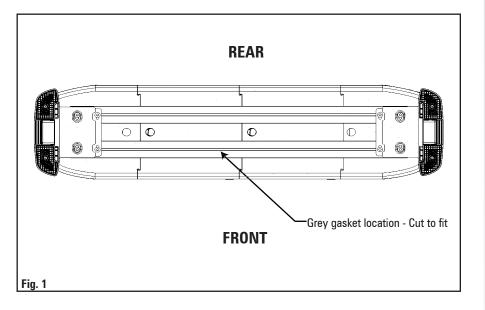
The lightbar must be securely mounted to the vehicle for safe operation.

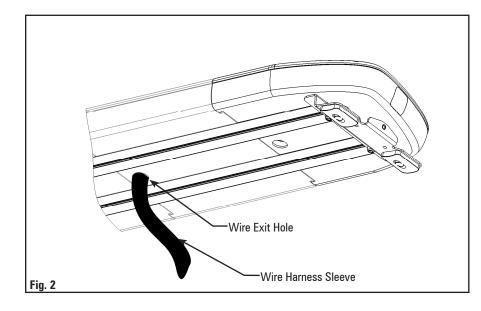
\*Deflection of the lightbar and/or the roof of the vehicle may occur when torqueing the bolts connecting the hook to the lightbar foot. Any deflection should be kept at a minimum to avoid damage to the lightbar or vehicle. 6. Install the cover door over the hook bracket bolt to finish the assembly. Place tab of one side into place and then push the second tab into place with a flat-head screw driver.

NOTE: As always, it is recommended to check the integrity of mounted lightbars on a daily basis to ensure secure attachment to the vehicle for continued safe operation.

6. Install the cover door over the hook bracket bolt to finish the assembly. Place tab of one side into place and then push the second tab into place with a flat-head screw driver.







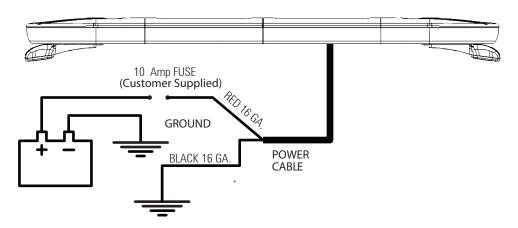
## **GASKET MOUNTING INSTALLATION**

1. Install the Grey gasket in the front slot of the lightbar as shown in Fig 1.

## WIRE SLEEVE INSTALLATION

- 1. Unspool all harnesses coming out of the lightbar.
- 2. Feed all harnesses through the sleeve until the sleeve is positioned at the exit hole under the lightbar.
- 3. Continue sliding the sleeve through the rubber gasket until it hits a hard stop (should be an additional 1-2 inches).
- 4. Use the included zip tie to clamp around the end of the sleeve opposite the lightbar.
- \*\*See Fig. 2 for reference\*\*





### **Control Wire Connections**

Based on required functions of the lightbar, connect the following wires to switches capable of providing +12V at a minimum of 1mA to the 8 or 12 control wire harness.

	Wire Color	nROADS Functions
	White	Pattern Select
able	Blue	Front Warning Mode 1
cont	Green	Front Warning Mode 2
ols a vire	Brown	Takedown
Standard Controls available with 8 and 12 wire control harness	Orange	Work Light
rd C and	Yellow	Rear Warning Mode 1
Standard with 8 a harness	Red	Rear Warning Mode 2
Sta wit haı	Black	Low Power
ble	Tan	Cruise Lights
aila ? wii	Violet	Right Arrow
Only available with 12 wire control harness	Pink	Left Arrow
On wit cor har	Gray	Right/Left Alley

## **STT Wire Connections**

If STT modules are installed in the lightbar, connect the following wires from the 4 wire harness as listed below to the stop, turn, tail wires which provides + 12V at a minimum of 1mA when the function is active. If the vehicle is a 3 wire system, the Red wire will not be used.

Wire Color	nROADS Functions
Red	Stop
Yellow	Left Turn
Green	Right Turn
Brown	Tail



## **ELECTRICAL INSTALLATION**

### Featured Highlights & Terminology:

Cruise Mode: Allows the user to program selected lights to "glow" when this feature is activated.

**Directional Arrow Built-in:** The directional controller is built-in with arrow patterns for each of the 3 modes (left arrow, right arrow, and center out arrow). The 12 wire control harness is required to activate this feature.

Scene Light Mode: Allows the user to program selected lights to turn steady on when this feature is activated to provide additional scene lighting. The 12 wire control harness is required to activate this feature.

Stop / Tail / Turn Mode: If lightbar is built with stop/tail/turn modules, separate control wires are included to control stop, tail, left turn and right turn.

Low Power Mode: Operates lighting at reduced intensity.

#### **Power Cable:**

- 1. Route lightbar power cables as close to vehicles power source (battery) as possible.
- 2. Connect the BLACK wire to the factory chassis ground right next to the battery.
- 3. Install a maximum of 10Amp Fuse (customer supplied) to the end of the RED wire of the Lightbar Power Cable.
- a. Remove the fuse before connecting any wires to the battery.
- b. DO NOT USE CIRCUIT BREAKER OR FUSIBLE LINK.
- 4. Connect the other end of the Fuse to the POSITIVE (+) terminal of the battery.
- a. Do NOT use any more than 2ft of wire between the battery terminal and the fuse and ensure the wire is protected and secured from being cut into; this is non-fused wire.

#### Standby Mode (reduced standby current)

If there are no active inputs the lightbar will go into a "standby" mode. The standby mode is a very low power mode that is used to extend the life of your battery. The lightbar will awaken from the standby mode when any input is activated.

# WARNING

ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPIATELY RATED FUSE.

# **IMPORTAN1**

WHEN PASSING CABLES THROUGH FIREWALL OR OTHER SHEETMETAL, INSERT GROMMET TO PROTECT THE CABLE!

# 

Route wires only in locations that are not subjected to potential wear. Make sure to avoid routing wires in the deployment area of your air bag. Refer to your vehicle's owner's manual for airbag deployment zone.



#### Warning Flash Pattern Configuration:

- a. Apply power to product
- b. Connect desired function wire(s) to power (i.e. Front Warning, Rear Warning)
- c. Momentarily connect Pattern Select wire to GND for defined amount of time to change the flash pattern or set up function mode per table below
- d. State is programmed upon releasing the pattern select wire from GND
- e. If pattern is changed, the pattern number will flash on the left and right corner modules with "10s" flashed on the left side and "1s" flashed on the right side

Warning Pattern Set-Up Table					
Time	Output	Action	Action w/Takedown Active		
$\leq$ 1 sec	High	Forward 1 pattern	Takedown will flash with warning		
1 to $\leq$ 2 sec	Low	Backward 1 pattern	Takedown will not flash with warning		
$2 \text{ to } \leq 3 \text{ sec}$	OFF	Reset to default pattern (takedown doesn't change)	Reset to default takedown setting (pattern doesn't change)		
$3 \text{ to } \leq 4 \text{ sec}$	High	Forward 1 Phase Mode	No effect - return to normal operation		
4 to $\leq$ 5 sec	Low	Forward 1 Color Mode	No effect		
5 to $\leq$ 6 sec	OFF	Reset to default phase & color setting	No effect		
>6 sec	Normal	No action taken. No pattern change will occur	No effect		

#### **Arrow Flash Pattern Configuration:**

- a. Apply power to product
- b. Connect desired function wire(s) to power (Left Arrow, Right Arrow or both for Center Arrow)
- c. Momentarily connect Pattern Select wire to GND for defined amount of time to change the flash pattern or set function mode per table below d. State is programmed upon releasing the pattern select wire from GND
- e. If pattern is changed, the pattern number will flash on the left and right corner modules with "10s" flashed on the left side and "1s" flashed on the right side

Arrow Set-Up Table				
Time	Output	Action	Action w/Takedown Active	
≤1 sec	High	Forward 1 pattern	Takedown will flash with warning	
$1 \text{ to } \leq 2 \text{ sec}$	Low	Backward 1 pattern	Takedown will not flash with warning	
$2 \text{ to } \leq 3 \text{ sec}$	OFF	Reset to default pattern (takedown doesn't change)	Reset to default takedown setting (pattern doesn't change)	
$3 \text{ to } \leq 4 \text{ sec}$	High	Set arrow to rear/front/both	No effect	
4 to $\leq$ 5 sec	Low	Set arrow to length	No effect	
5 to $\leq$ 6 sec	OFF	Reset to default settings	No effect	
>6 sec	Normal	No action taken. No pattern change will occur	No action taken. No pattern change will occur	



fpm=Flashes per Minute fps=Flashes per Second		FLASH PATTERNS			Default	
#	Name	SAE Compliant	Cal. Title 13 Compliant	Phase	fpm	fps
1	RandomAction 1	Y		Variable		
2	RandomAction 2			Variable		
3	RandomAction 3			Variable		
4	RandomAction 4		Y	Variable		
5	Quint	Y		Programmable	67	1.1
6	Quad2	Y		Programmable	67	1.1
7	Q-Switch™	Y		Programmable		
8	Double2	Y		Programmable	115	1.9
9	Power Pulse	Y		Programmable	188	3.1
10	Road Runner	Y	Y	Programmable	115	1.9
11	Slow Runner	Y	Y	Programmable	70	1.2
12	Warp			Programmable	333	5.6
13	Intercycle			Programmable	67 & 333	1.1 & 5
14	Warp 1, 2, 3			Programmable	115 - 333	1.9 - 5.
15	E-Single			Programmable		
16	E-Double			Programmable		
17	E-Triple			Programmable		
18	Cross-Fire			2X Individual Sweep		
19	Super Scan			Dual Rate Pulse/Alt		
20	Power Flash			Dual Rate Alt/Pulse		
21	Thunder and Lightning			Random		
22	Steady ON			60% DC		
23	OFF			OFF		

## **CRUISE PATTERNS**

#	Phase
1	Constant On
2	Flicker

## PHASE MODE

#	Phase
1	Variable: Alt L/R, Alt Int, Alt In/Out
2	Alt In/Out
3	Alt L/R

## **ARROW MODE**

#	Arrow Location	
1	Rear	
2	Front	
3	Rear + Front	

## **ARROW PATTERNS**

#	Name	SAE Compliant	Cal. Title 13 Compliant
1	Single Fast		
2	Single Slow		
3	Chaser Fast		
4	Chaser Slow		
5	Fill Fast		
6	Fill Slow		
7	Grow/Shrink		
8	Warning w/Arrow		
9	Warning w/Arrow Fill		
10	Arrow Random 1		
11	Arrow Random 2		
12	Rotate 250	Y	
13	Race 100 (Rotate w/ Chaser)	Y	Y
14	Race 200 w/ TriplePop		



#### **Takedown and Work-light Configuration:**

- a. Apply power to product
- b. Connect takedown / worklight input to power.
- c. Momentarily connect Pattern Select wire to GND for defined amount of time to change the takedown/worklight setting per table below. Note that all Modes are used even if lightbar doesn't have the affected modules (e.g. a 36" bar does not have F3 or F4).
- d. State is programmed upon releasing the pattern select wire from GND.

Mode #	Position (Single Color)		
	Takedown	Worklight	
1	F1	R1	
2	F2	R2	
3	F3	R3	
4	F4	R4	
5	F1, F2	R1, R2	
6	F1, F3	R1, R3	
7	F1, F4	R1, R4	
8	F2, F3	R2, R3	
9	F2, F4	R2, R4	
10	F3, F4	R3, R4	
11	None	None	

Takedown/Work Light Set-Up						
Time	Output	Action				
$\leq$ 1 sec	High	Forward 1 mode				
1 to $\leq$ 2 sec	Low	Backward 1 mode				
2 to $\leq$ 3 sec	OFF	Reset to default settings				
>3 sec	High	No action taken. Return to normal operation				

#### **Cruise Configuration:**

a. Apply power to product

- b. Connect cruise input to power
- c. Momentarily connect Pattern Select wire to GND for defined amount of time to change the cruise setting per table below
- d. State is programmed upon releasing the pattern select wire from GND

Time	Output	Action	
≤1 sec	High	Forward 1 mode	
$1 \text{ to } \leq 2 \text{ sec}$	Low	Backward 1 mode	
$2 \text{ to } \leq 3 \text{ sec}$	OFF	Reset to default settings	
$3 \text{ to } \leq 4 \text{ sec}$	High	Cruise set to solid on	
4 to $\leq$ 5 sec	Low	Cruise set to flicker	
5 to $\leq$ 6 sec	OFF	Increment brightness (3%-8% duty cycle)	
>6 sec	Normal	No action taken. Return to normal operation	

Position Key			
FC Front Corner			
RC	Rear Corner		
F(X) Front Inboard 1			
R(X) Rear Inboard 1-4			

Cruise Mode Set-Up				
Mode #	Position (Single Color)			
1	FC, RC			
2	FC, F1 RC, R1			
3	FC, F1, F2 RC, R1, R2			
4	FC, F1, F2, F3 RC, R1, R2, R3			
5	FC, F1, F2, F3, F4 RC, R1, R2, R3, R4			
6	FC, F1, F2, F3, F4 RC			
7	F1, F2, F3, F4			
8	FC, F1, F2, F3, F4			
9	FC, F1, F2, F3			
10	FC, F1, F2			
11	FC, F1			
12	FC			
13	RC			
14	RC, R1			
15	RC, R1, R2			
16	RC, R1, R2, R3			
17	RC, R1, R2, R3, R4			
18	R1, R2, R3, R4			
19	FC RC, R1, R2, R3, R4			



#### **REPLACEMENT OF INBOARD AND CORNER MODULES:**

- 1. Disconnect main power.
- 2. Remove top cover by removing screws.
- 3. Locate module.
- 4. Push down on black tab to un-clip the module.
- 5. Remove connector from rear of module by carefully pulling connector body from back of module.
- 6. Push module connector into replacement module ensuring locking latch is seated properly and connector is fully seated.
- 7. Replace screw if the module has a bracket (if no bracket skip this step).
- 8. Restore power to bar and test new module to ensure functionality.
- 9. Replace top cover of bar with screws removed in step 2.

### **REPLACEMENT OF CONTROLLER BOARD:**

- 1. Disconnect main power.
- 2. Remove top cover by removing screws.
- 3. Locate controller board.
- 4. Remove all wire harness connectors from Controller Board by carefully depressing locking tabs on connector body.
- 5. Pinch clear plastic tabs to un-clip the Controller Board.
- 6. Remove Controller Board by sliding towards clear plastic tabs and pulling up.
- 7. Place new Controller Board into slots and push down allowing clear plastic tabs to "snap" into place.
- 8. Plug in all wire harness connectors to Controller Board, ensuring locking tabs "snap" locked.
- 9. Inspect routing of wire harnesses are clear of screw bosses for top cover, and place top cover into position.
- 10. Set Dip Switches of new board to match settings on previous board.
- 11. Re-install removed screws to top cover.
- 12. Restore power to bar and test functionality.

#### **Dip Switch Settings**

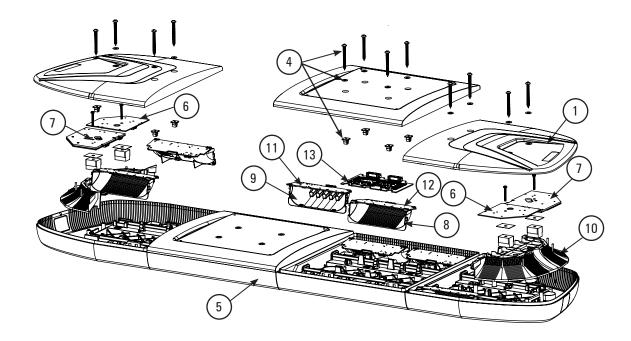
SW1	SW2	SW3	SW4	SW5	SW6	PURPOSE
0	0	0				Lightbar Length - N/A (4 inboards)
0	0	1				Lightbar Length - 36" (4 inboards)
0	1	0				Lightbar Length - 42" (5 inboards)
0	1	1				Lightbar Length - 48" (6 inboards)
1	0	0				Lightbar Length - 54" (7 inboards)
1	0	1				Lightbar Length - 60" (8 inboards)
1	1	0				Lightbar Length - N/A (8 inboards)
1	1	1				Lightbar Length - N/A (8 inboards)



## **nROADS TROUBLESHOOTING**

NO OPERATION	Check input power and ground to lightbar, check signal wires for damage and/or opens		
	Check Input power wire and verify a minimum of 10.0 Volts is present on the wire		
	Check for blown fuse		
NO TAKEDOWN LIGHTS	Verify configuration and make sure light modules are configured for takedown function		
NO LIGHT OPERATION IN ONLY 1 MODULE	Verify module is not configured as a takedown / worklight that is not configured to flash with warning Verify connection to module inside lightbar STT modules will not flash on Arrow		
ARROW PATTERN INCORRECT LENGTH	Verify the configured arrow length Verify correct lightbar length setting on Controller Dip Switches		





## **REPLACEMENT PARTS & ACCESSORIES**

ITEM #	PART#	DESCRIPTION	ITEM #	PART#	DESCRIPTION
	PNFLBK00	STANDARD FIXED HEIGHT MOUNT - THIN PAD	1	PNFLBTT(xx)L(xx)	TOP COVER
	PNFLBF00	FIXED HEIGHT PERMANENT MOUNT HOOK KIT	5	PNFLBTB(xx)LC	BOTTOM LENSES - CLEAR LEXAN
	PNFLBK02	HEADACHE RACK MOUNT	12	PRMLBLS106(x)	SINGLE COLOR 6 LED INBOARD MODULES
	PETLF00	FIXED HEIGHT PERMANENT MOUNT KIT	12	PRMLBLS109(x)	SINGLE COLOR 9 LED INBOARD MODULES
	PNFLBK01	FIXED HEIGHT PERMANENT MOUNT		PRMLBSS106R	6 LED STT MODULE
	PNFLBK04	STANDARD FIX HEIGHT MOUNT - 48" TAHOE	11	PRMLBHS106W	6 LED TAKEDOWN/WORKLIGHT
	PNFLBK05	STANDARD FIX HEIGHT MOUNT - 54" TAHOE	6	PRMLBCSS109(x)	SINGLE COLOR 9 LED CORNER AD MODULES
	PNFLBK06	FIXED HEIGHT PURSUIT MOUNT THIN PAD	6	PRMLBCSS112(x)	SINGLE COLOR 12 LED CORNER AD MODULES
	PNFLBK07	FIXED HEIGHT PURSUIT MNT THK PAD W/EXT	6	PRMLBCSS118(x)	SINGLE COLOR 18 LED CORNER AD MODULES
	PNFLBK08	FIXED HEIGHT PURSUIT MNT THK PAD NO EXT	7	PRMLBCLS109(x)-W	SINGLE COLOR 9 LED CORNER BC MODULE W/ALLEY
	PNFLBK09	XTRA FIT® HOOK KIT	7	PRMLBCLS112(x)-W	SINGLE COLOR 12 LED CORNER BC MODULE W/ALLEY
	PRMLBHNST1	DC STT HARNESS	7	PRMLBCLS118(x)-W	SINGLE COLOR 12 LED CORNER BC MODULE WALLEY
	PRMLBHNPW1	DC POWER HARNESS	7	PRMLBCLS109(x)-Z	SINGLE COLOR 9 LED CORNER BC MODULE - NO ALLEY
	PRMLBHNPT1	DC CONTROL INPUT HARNESS - 8 WIRE	·		
	PRMLBHNPT2	DC CONTROL INPUT HARNESS - 12 WIRE	7	PRMLBCLS112(x)-Z	SINGLE COLOR 12 LED CORNER BC MODULE - NO ALLEY
	PNFLBWGKT1	WEDGE KIT	7	PRMLBCLS118(x)-Z	SINGLE COLOR 18 LED CORNER BC MODULE - NO ALLEY
	PNFLBHPKT1	HOLE PLUG KIT	9	PNFLBRFTD1	TD/WL REFLECTOR
	PNFLBFTCV1	STANDARD FIXED HEIGHT FOOT CAP	8	PNFLBRFL845	INBOARD REFLECTOR
4	PNFLBTCSKT1	TOP COVER SCREW KIT	10	PNFLBRFC845-(x)	CORNER REFLECTOR
	PNFLBWMKT1	WIRE MANAGEMENT KIT		PNFLBHNPW1	15 FEET POWER HARNESS (BREAKOUT BOX VERSION)
$\mid$	PRMLBHNMD1	DC MODULE HARNESS - SINGLE COLOR			25 FEET POWER HARNESS
	PRMLBHNSLV	DC MASTER HARNESS SLEEVE		PRMLBHNPW3	(BREAKOUT BOX VERSION)
13	PRMLBDRV1	DC MOTHERBOARD		PRMLBHNPW1	15 FEET POWER HARNESS (DIRECT CONNECT VERSION)



## WARRANTY & RETURN GOODS PROCEDURE

#### **CLEANING & CARE OF YOUR LIGHTBAR:**

Keeping the lenses clean and scratch free will optimize the performance of the lightbar. The exterior of the lightbar including lenses should be cleaned with mild soapy water and a soft cotton cloth to remove dirt, grime and insects. Never use window cleaners or harsh chemicals on the lenses; this may cause failure of the lenses or reduce clarity resulting in the reduction of light output.

#### **MOUNTING INTEGRITY:**

A review of bolt/hardware/mounting bracket integrity should be performed at the beginning and end of each shift.

#### WARNING MESSAGES - PLEASE READ:

**WARNING** - DRILLING ANY HOLES INTO THE LIGHTBAR IS NOT RECOMMENDED! THE RISK OF DAMAGING INTERNAL COMPONENTS AND THE RESULTING FAILURE OF THE LIGHTBAR WILL VOID ANY WARRANTY OF THIS PRODUCT.

**WARNING** - CARE MUST BE TAKEN WHEN DRILLING THROUGH THE ROOF OF THE VEHICLE NOT TO DRILL INTO ANY EXISTING WIRING AND NOT TO DRILL THROUGH THE HEADLINER OR SUPPORT MEMBERS OF THE VEHICLE. CHECK BOTH SIDES OF THE MOUNTING SERVICE PRIOR TO DRILLING. DE-BURR ANY HOLES AND REMOVE ANY METAL SHARDS OR REMNANTS. INSTALL GROMMETS INTO ALL WIRE PASSAGE HOLES.

**WARNING** - ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE OWNER'S MANUAL FOR AIR BAG DEPLOYMENT ZONES.

**WARNING** - ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASSIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPRIATELY RATED FUSE.

**IMPORTANT:** When passing cables through fire wall or other sheet metal, insert grommet to protect the cable!

#### WARRANTY RETURN PROCESS:

Please contact your SoundOff Signal Sales Representative, Customer Services staff or our Technical Department (800.338.7337) for a RMA #, Return Merchandise Authorization Number.

The following information is required for issuance of the RMA #:

- · Reason for returning the product\*
- · Address where replacement product is to be shipped\*
- Telephone number where you may be reached\*
- SoundOff Signal invoice number on which product was purchased\*\*
- SoundOff Signal part number and serial number\*\*
- E-mail address where RMA # should be e-mailed\*\*
- Fax number where RMA # should be faxed\*\*

\* RMA # will not be given without this information.

\*\* If available, please provide this information.

SoundOff Signal will NOT accept returns without an RMA #. Each RMA # is good for only one (1) return and will expire (30) days after the date it was issued. Products must be shipped back to SoundOff Signal and the RMA # clearly marked on the outside of the package near the shipping label. Please use the following address on your shipping label:

SoundOff Signal ATTN: RMA # / Technical Services 3900 Central Parkway Hudsonville, MI 49426

#### WARRANTY EXCLUSIONS:

Shipping & Handling, labor and service fees are non-refundable. SoundOff Signal is not liable for any damage due to installation or personal injury as a result of using SoundOff Signal product.

#### WARRANTY FORFEITURE:

Warranty will not be granted if the Warranty Return Policy & Procedure rules are not strictly followed. Physical damage resulting from customer abuse will void warranty. Warranty will also be voided if any SoundOff Signal and/ or manufacturer serial tags, product stickers, seals, or the like, are removed, altered or tampered with. Returned product that is damaged by shipping via the RMA # procedure is not the responsibility of SoundOff Signal.

Document effective date on cover and below supersedes previously dated policies and statements.

There are no other warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular use. SoundOff Signal reserves the right to modify this warranty statement at any time; or to discontinue, modify, or upgrade any products of its manufacture with design improvements without prior notice.